

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/001997

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H02H 7/045

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H02H, G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6483680 B1 (KULIDJIAN, A ET AL), 19 November 2002 (19.11.2002), column 1, line 23 - line 31; column 1, line 44 - line 67; column 8, line 48 - line 56 --	1-7
A	US 5784233 A (BASTARD, P ET AL), 21 July 1998 (21.07.1998), column 1, line 17 - line 30, figure 3 --	1-7
A	SHENGLI HUANG ET AL: "Analysis of balanced and unbalanced faults in power systems using dynamic phasors." In: Power System Technology, 2002. Proc. PowerCon 2002. 13-17 Oct. 2002, pages 1550-1557 vol.3. See the abstract --	1-7

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier application or patent but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

1 April 2005

Date of mailing of the international search report

18 -04- 2005

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GAJIC, Z ET AL: "Verification of utility requirements on modern numerical transformer protection by dynamic simulation." In: Developments in Power System Protection, 2001, Seventh Int Conf on (IEE), 9-12 April 2001, pages 209-212. See page 211, column 1 --	1-7
A	US 6518767 B1 (ROBERTS, J B ET AL), 11 February 2003 (11.02.2003), abstract -- -----	1-7

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

01/03/2005

International application No.  
PCT/SE 2004/001997

US	6483680	B1	19/11/2002	NONE		
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US	5784233	A	21/07/1998	AT	263779 T	15/04/2004
				CN	1047887 B,C	29/12/1999
				CN	1141097 A	22/01/1997
				DE	69414605 D,T	17/06/1999
				EP	0683791 A,B	29/11/1995
				SE	0683791 T3	
				EP	0738432 A,B	23/10/1996
				ES	2127509 T	16/04/1999
				FR	2714771 A,B	07/07/1995
				US	5859213 A	12/01/1999
				WO	9519059 A	13/07/1995
				AT	285475 T	15/01/2005
				AU	704440 B	22/04/1999
				AU	1711495 A	21/08/1995
				CA	2141907 A	05/08/1995
				DE	674004 T	19/09/1996
				DE	69533863 D	00/00/0000
				EP	0674004 A,B	27/09/1995
				FI	954699 A	03/10/1995
				FR	2715939 A,B	11/08/1995
				JP	8511170 T	26/11/1996
				NO	953925 A	04/12/1995
				NZ	279855 A	27/05/1998
				US	5800980 A	01/09/1998
				US	5871745 A	16/02/1999
				US	5871996 A	16/02/1999
				US	5962217 A	05/10/1999
				US	6184025 B	06/02/2001
				US	6342383 B	29/01/2002
				WO	9521256 A	10/08/1995
<hr/>						
US	6518767	B1	11/02/2003	AU	1536502 A	29/04/2002
				BR	0114791 A	12/08/2003
				CA	2425942 A	25/04/2002
				CN	1481506 T	10/03/2004
				EP	1327153 A	16/07/2003
				MX	PA03003416 A	04/05/2004
				NZ	525831 A	25/06/2004
				US	6590397 B	08/07/2003
				US	20020101229 A	01/08/2002
				WO	0233426 A	25/04/2002